MAKING BIG TRAYS.

A Method of Making Ones That Are Absolutely Waterproof.

The development of bromide en largements and the use of large sized plates render necessary dishes of a size which are very expensive to purchase and often very unmanageable on account of their excessive weight, especially if they are of glass or porcelain. In consequences of the expense home-made trays are often empleyed, but these are very likely to leak and then become very bothersome. Perhaps the most general expedient is the lining of a wooden tray with olicloth or sheet rubber, but such a tray usually has wrinkles and folds on the bottom, and hence is not particularly economical of solutions, besides being very likely to leak. Sheet lead may be employed as a lining, but the trays then become very heavy. A process frequently advocated is the painting of the inside of a wooden tray with asphaltum to make it watertight. In order to make this effective, several thin coats must be given, with thorough drying between, and it will then be found that he asphaltum will not resist the prolonged action of photographic chemicals. The process which we found to be most effectual is to paint the tray with a coat of glue to which has been added 5 or 6 per cent of bichromate of potasium. By exposing to sunlight for two or three hours, the coating becomes absolutely waterproof. We usually give three or four coats of glue, with thorough synning after each, and find that he resulting tray leaves little to be desired for lightness and durability.

Charging Women Less Than Men. At the old-fashioned inns and res-

Charging Women Less Than Men.
At the old-fashioned inns and restaurants in Sweden it is customary to charge less for women than for men on the theory that they do not eat so much. At some hotels in Sweden a man and a wife are charged as one and one-half persons if they occupy the same room. A husband and wife may travel as one and one-half persons by railway, and also by the post routes, furnishing their own carriage.

Hall's Catarrh Cure is a liquid and is taken ternally, and acts directly on the blood and mucous surfaces of the system. Write or testimonials, free. Manufactured by F. J. CHENEY & Co., Toledo, O.

The largest coral reef in the world is the Australian barrier reef, which is 1100 miles in length.

miles in length.

FITSpermanently cured. No fits or nervousness after first day's use of Dr. Kline's Great
Nervolkestorer. \$2trial bottle and treatisefree
Dr. K. H. KLINE, Ltd., 321 Arch St., Phila., Pa.

It's the tiresome people who bore their way through life.

Iam sure Piso's Cure for Consumption saved my life three years ago.—Mns. Thomas Ron-zins, Maple St., Norwich, N. Y., Feb. 17, 1990. There is a difference between being of spoken and being out-talked.

PUTNAM FADELESS DYES color more coods, per package, than others.

Some people love their neighbors for what they can get out of them.

My Lungs

'An attack of la grippe left me h a bad cough. My friends said d me promptly."
A. K. Randles, Nokomis, Ill.

You forgot to buy a bottle of Ayer's Cherry Pec-toral when your cold first came on, so you let it run along. Even now, with all your hard coughing, it will not disappoint you. There's a record of sixty years to fall back on.

s: 25c., 50c., \$1. All dru

Headache?

Appetite poor? Bowels constipated? It's your liver! Ayer's Pills are liver pills.

Buckingham's Dye



P. N. U. 42, '02.



A Miracle of Irrigation.



By Ray Stannard Baker.

F ever men worked miracles, they have worked them here in the Western valleys. If ever something was created from nothing, these men have done it. Thirty-five years ago the Salt River Valley, into which we had driven, was all a parched desert, uninhabited save by a few lean Indians and two or three hardy traders, whom the sand and the cactus crowded down close to the water of the river. It was a thousand miles from the nearest railroad—an unknown, desolate, forbidding land, a part of the Great To-day the Salt River Valley contains a population of over 25,000. It has a electric ear line, good hotels, churches, and other buildings, residences surrounded by trees, lawns, and a wilderness of flowers. More than 125,000 tronards of oranges, almonds, olives, and figs, and grain and hay fields. Thousands of cattle feed in the rich meadows, and there are bees, chickens, ducks and ostriches unnumbered. Richer soil than this once desert valley does not exist anywhere in the world except in other once desert valley worth \$1000 an acre on one side of a fence, and bare cactus desert on the other, both having the same soil, the same opportunities, but only one having water. Here, when a man builds his fence of cottonwood posts, such is the soil and such the water that the posts take root and grow into trees, so that the wire of many old fences is seen running through the centre of large trees. Here a farmer rarely needs to use fertilizer, for the river comes in bearing rich silt and spreads it over his fields; and he may sometimes cut two or three or more crops a year from his alfalfa fields, and then pasture them during the winter—winter which is in reality a continual spring.—The Century.

Problems of To-Day.

By Governor Odell, of New York.



By Governor Odell, of New York.

ROBLEMS of the most important character are ever before us, which demand integrity of purpose and wisdom of action in their solution. The successes of arms have given way to the demands of our commerce; the upbuilding of our Nation exacts tribute from our citizenship. The duty of the State calls for the encouragement of labor and the restraint of greed.

The capital of the individual is inadequate to cope with these great problems, and a community of interests has been evolved before which all obstacles are removed, and there seems to be no limitation to our power or to the influence we may exert upon the destinles of the world. Wealth and its accumulation might prove dangerous to the simplicity of our Government were it not that over and above all there is a religion that teaches the brotherhood of man. For, after all, the greatest product of our country is man—man self-reliant, courageous and determined, whose faith is in himself and in his God.

The foundation of wealth is labor, no matter what form it may take, its existence without labor would be both impossible and useless. All property, therefore, being labor, it should be conceded equal rights with, but never in excess of that which is given to its creator.

These are some of the problems that the changed conditions incident to our present commercial development have projected into the affairs of State. Respect for law cannot all be on one side. Greed should never prevail or be permitted to conquer the honest intentions of our employes. Powers that are prejudicial to the health, the morals or the well-being of any of our citizens are sure to lower the standard of our citizenship. If we should have other aims than this we would have fought in vain for republican principles of Government and the sacrifices of our forefathers would have been fruitless. We must depend upon a broad statesmanship upon the part of our lawmakers and upon the partiotism of a free people for the solution of the problems that confront us.

Simplicity and Regularity Cardinal Laws of Health

By Mme. Adelina Patti.



Mme. Adelina Patti.

O be healthy is the natural state, and disease is, in nine cases out of ten, our punishment for some indiscretion or excess.

Every time we are ill it is part of our remaining youth which we squander. Every recovery, whether from headache or pneumenia, is accomplished by a strenuous effort of vitality, and is therefore a waste of our capital of life. Therefore do not let yourself be ill.

The best plan to avoid illness is to live regularly, simply, with frugality that stupid persons alone will deem painful

with frugality that stupid persons

with frugality that stupid persons

with frugality that stupid persons

leep eight hours in every twenty-four.

Ventilate the rooms you work and sleep in. Very few people, even among shose who think they are well up in modern ideas, have any conception of what ventilation means. Even when my voice was the only thing I had in the world, I slept with my windows wide open, summer and winter, and never caught cold in that way.

Examine seriously into your list of social obligations. Have the good sense to recognize that there is neither pleasure nor profit in most of what you regard as essential in that line, and simplify your social life—simplify it all you can.

Complicated living breeds worry, and worry is the main enemy of health and happiness—the one fiendish microbe that does more to destroy the health and happiness of mankind than any other.

Make your home a pleasant place, cheerful, but well within your means. Drink nothing but water or milk—especially drink lots of water. You never can drink too much of it.

On the other hand, remember that alcohol is poison which does untold damage within you; that wine, beer, coffee and ten are poisons, too. Shun them as you would diluted vitriol.

Cultivate Trust in Your Fellow Men

By Margaret Stowe.

By Margaret Stowe.

WO children were discussing the strong and weak points of their respective schools. One said that at her school it was against the rules to do thus and so. The other child replied that at the school she attended there were no rules, the scholars were put on their honor.

So few parents and teachers realize the necessity of setting an example to children by trusting them.

I have never known a school where rules regulated the priviliges and restrictions where those same rules were not constantly being broken. On the other hand, it is the exception to find a school in which the children are put on their honor where confidence and harmony do not reign.

It is so throughout our lives. A man who has any self-respect resents suspicion. Instinctively we desire to be trusted to do what is right, and no one is quite himself, quite true to his best impulses, when under suspicion. There is a large amount of distrust in circulation among the majority of men and women. There are so many who are constantly suspecting the motives of others, with apparently no reason whatsoever.

It is far more disgraceful to distrust your friends than to be deceived by them. Our mistrust only justifies the mistrust of others.

We cannot be too careful in regard to our thoughts of others.

Our attitude and bearing toward those around us is soon observed by the younger minds, whose training lies in our hands, and is copied. We stand is examples to them for good or evil.

We should strive to show children by our example that life is more beautiful and more worth living when we act honestly, justly, merelfully and fovingly toward all.

We should teach them that right feeling develops right thinking; the right thinking brings out the right word and deed.

The confidence we have in the virtue of others is no slight evidence of our own.

SCIENTIFIC INDUSTRIA

was valued at \$2300.

Dr. Grun, of London, has been using the fluid lens with much success for taking photographs at night without any light except the ordinary illumination used in buildings. For example, he made excellent snapshot pictures of stage scenes in theatres with no extra light, and even cinematograph views in the same way. The fluid lens was for merly used to overcome the difficulty of chromatic aberration before the combination of flint and crown glass was invented, but Dr. Grun used it for its rapidity of action. He thinks that it will greatly widen the field of photography.

Government investigations of stream pollution and of the qualities of natural waters in general have been instituted by the Division of Hydrography of the United States Geological Survey. The work will embrace the sanitary inspection of streams, turbidity and color measurements, and chemical and bacterial analyses. The co-operation of workers in various fields is desired, particularly in the physical and analytical sections. To secure uniformity in results, the department has issued two bulletins setting forth standard methods of making and reporting analyses, and describing handy apparatus for the color and turbidity determinations.

Many persons have a notion that the pineapple grows on a tree. It does not. The plant reaches a height of only four feet, to the tip of the leaves. It comes out of the ground as a stalk, but divides at once into sword-like leaves, fifteen in number, from the centre of which projects a stiff, upright stem, and at the top of this stem grows the fruit. The stem is short, and the crown of the fruit, when full grown, is a foot or more below the tips of the leaves. Each plant produces a single "apple," but when this is pulled a little sucker appears on the stem among the leaves, and this becomes the head of the plant, and within a year produces another apple. This may go on for years. Many persons have a notion that the

for years.

The Catholic University of America has just equipped an elaborate department for the thorough experimental study of the problem of flight. Part of the equipment is a wooden tunnel fifty feet in length, with a cross section of six square feet, in which a wind of any desired speed can be generated by means of a suction fan at one end of the tunnel. Objects of various kinds and shapes are placed in this wind current, and their resistance, lift, drift, surface friction, etc., are noted. A gauge that can be read to less than one ten-millionth of an atmosphere is used to determine the pressure at all points in the stream of air. It is hoped that these experiments may furnish trustworthy data for neronautic calculations.

A Plague of Tarantula Spiders.

There is a perfect plague of tarantula spiders in the south of Spain, near Seville, says the London Express. The number of the sufferers is so great that all the guitar players of the neighborhood have been employed. They have established a tariff at the rate of about two cents a mase treated by the harmonic cure. The guitar player has to keep up the tune "La Tarantula," while the person bitten by the spider dances to it. In serious cases, when the patient is confined to bed, the guitar player accompanies the family, who sit around the bed singing the disenchantment "Tarantula" rhyme, which might be translated as follows:

"Come out, come out, this instant,

"Come out, come out, this instant, Come out, thou venom bite, And may the cruel biter Forever take to flight."

Forever take to flight."

One America Enough.

Lord Kitchener's statement that the empire's new territory is a land full of "every description of potential wealth" should give pause to those who declare that gold is its sole resource. But what did Lord Kitchener mean by the statement that, we have "the makings of nothing less than a new America in the southern hemisphere?" One America is as much as the civilized world can put up with; and there are times when we find that one too many.—London Saturday Review.

A Fool's Sayings.

The sayings of a fool with a bank account are brighter than the most scintillant wit of a poor genius.—New York News.

SUFFERED SEVEN YEARS

With Catarrhal Derangements of the Pelvic Organs.



Miss Kate Brown. Recording Secretary of the L. C. B. Association, of Kansas, in a letter from 605 N, Seventh St., Kansas City, Kan., says:

"For seven years I have not known what it was to spend a well day. I caught a severe cold, which I neglected. It was at the time of menstruation, and inflammation set in and prostrated me. Catarrh of the kidneys and bladder followed, my digestive organs gave way; in fact, the cold disarranged my whole system.

"I spent hundreds of dollars with doctors and medicine, but derived but tittle benefit until I began treatment with Peruna. I kept taking it for nearly nine months before I was completely cured, but I kept growing better gradually so that I felt encouraged to continue taking Peruna until my health was restored. I send my thanks

The Lost City.

"The Lost City."

The Lost City.

The site of the lost Indian city, Mascoutens, which was reported as having 20,000 inhabitants in 1675, has been determined by the labors of Thomas Cilthero, of Portage, Wis., now extended over many years. It was the largest city in all Indian history, so far as United States territory is concerned, and the descriptions of the Jesuits in the course of the seventeenth century, closing with Marquette and Joliet in 1673, are said to have been verified.

How to Keep Young.

One of the secrets of keeping young, vigorous and supple-jointed, is to continue to practice, the activities of youth, and to refuse to allow the mind to stiffen the muscles by its suggestion of age limitations. If men like Peter Cooper and William E. Gladstone, who kept up the vitalizing excreises of robust manhood when far into the eighties, had succumbed at 40 to the thought of approaching age, how much of their valuable life-work would have remained undone?

ST. JACOBS OIL POSITIVELY CURES

Rheumatism Neuralgia Backache Headache Feetache All Bodily Aches

CONQUERS PAIN.

Tourists, sportsmen, hunters and fishermen find Ripans Tabules an always handy article in hotel, sleeping car, field and camp. They are the best and only medicine needed for an outing, as they keep head, stomach, bowels and liver in the right condition and thus present right condition, and thus prevent any other trouble likely to arise from exposure or sitting at late





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